

Fig. 1

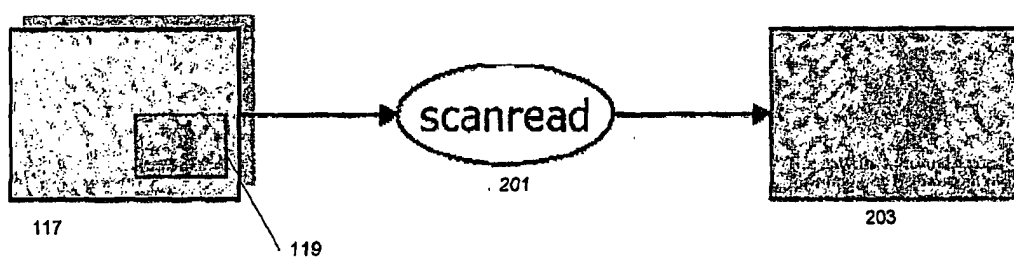
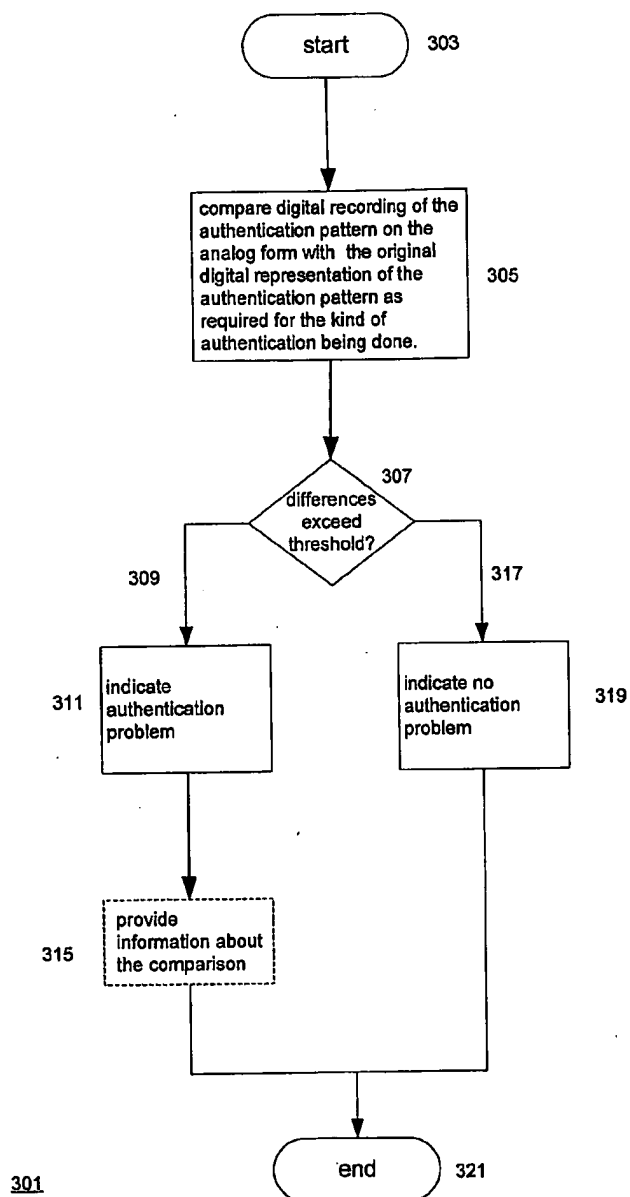
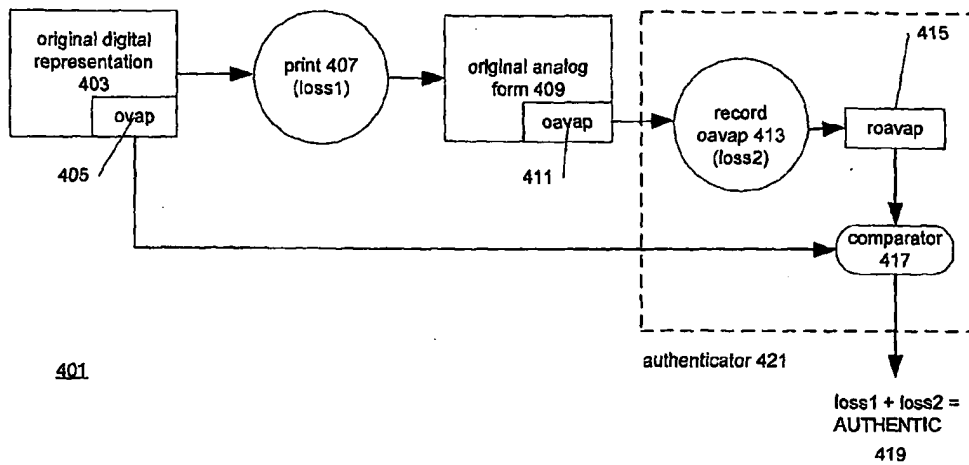


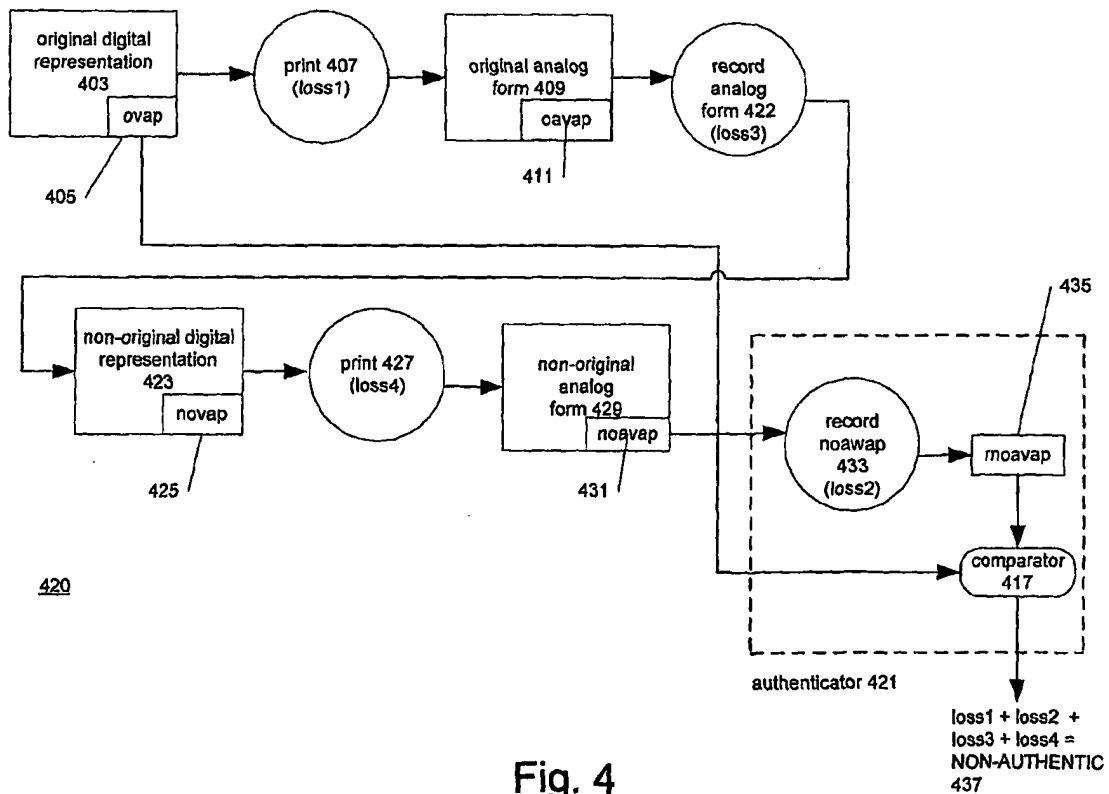
Fig. 2

**Fig. 3**

**Scenario 1: printing and authentication of an original analog form**



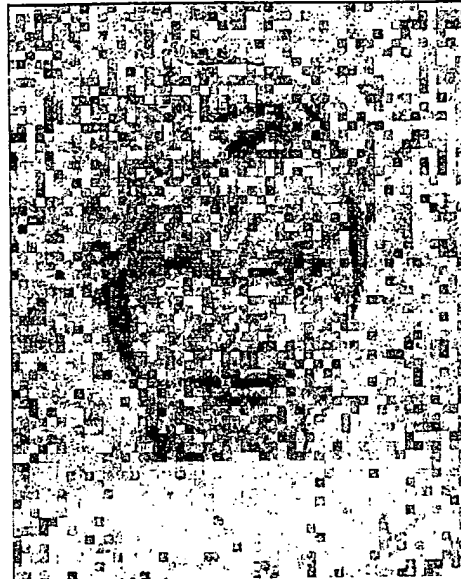
**Scenario 2: printing and authentication of a non-original analog form**



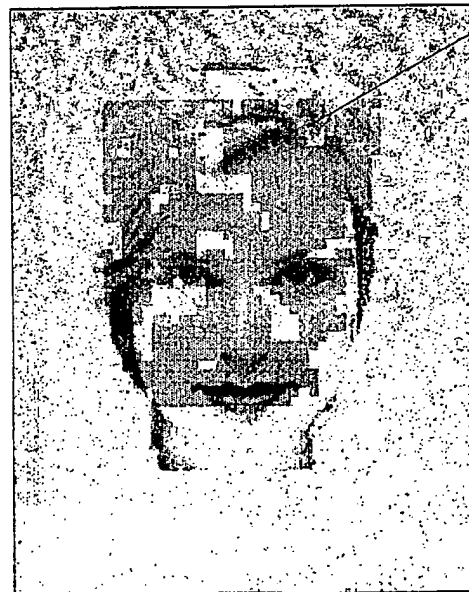
**Fig. 4**



501



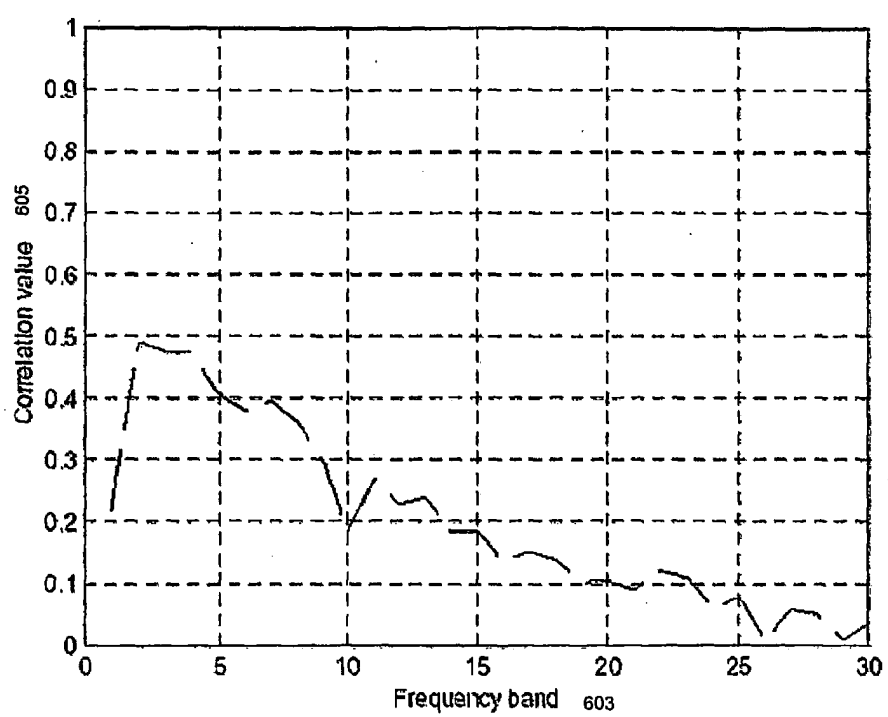
502



503

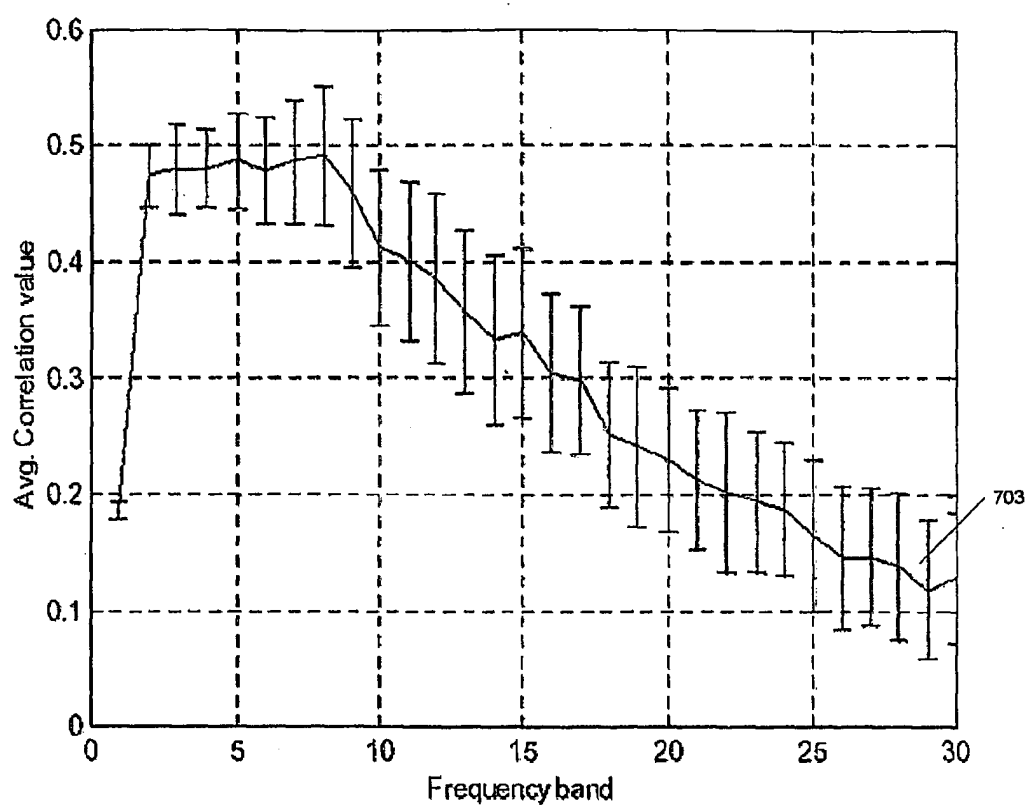
505

Fig. 5



601

Fig. 6



701

**Fig. 7**

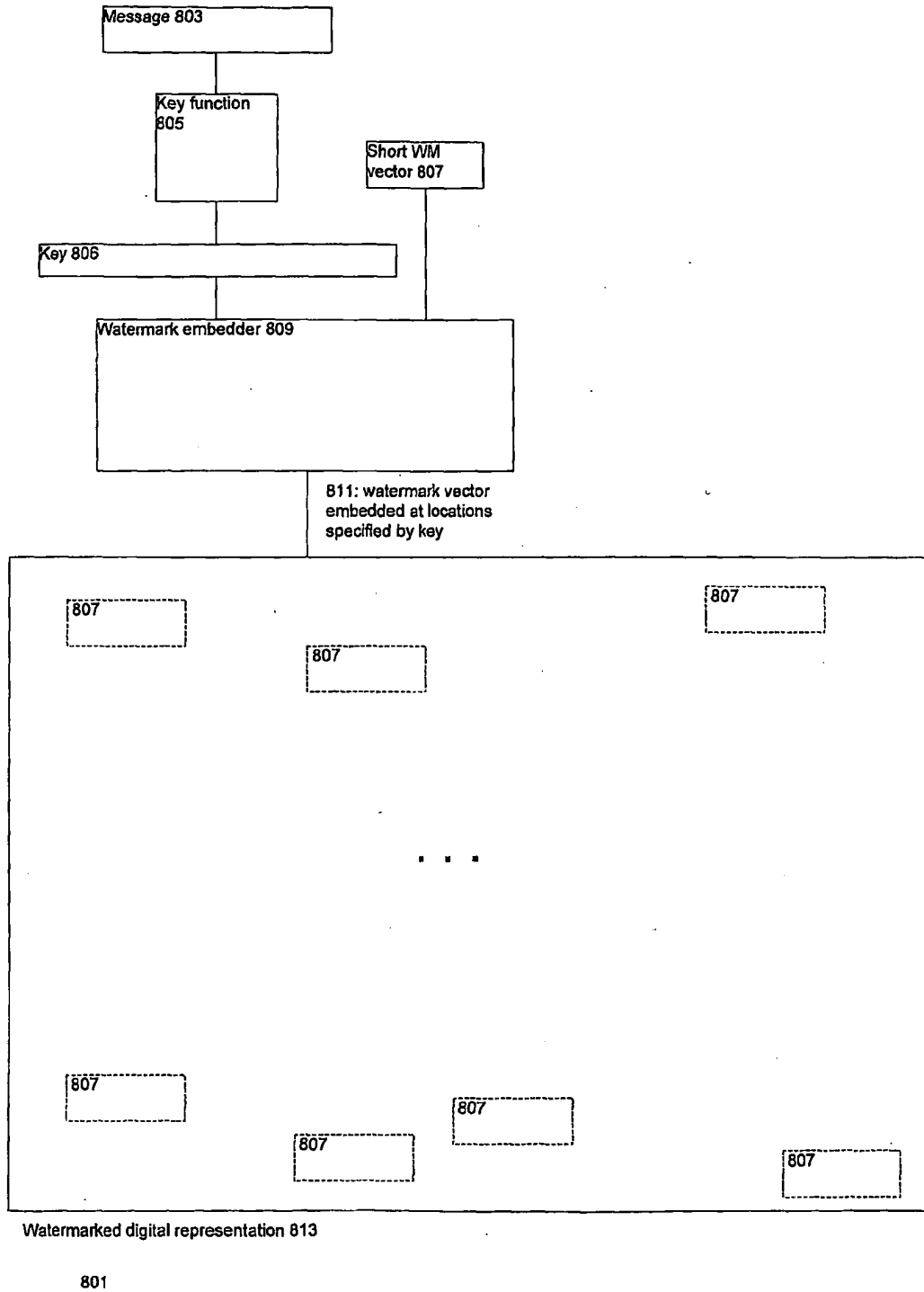
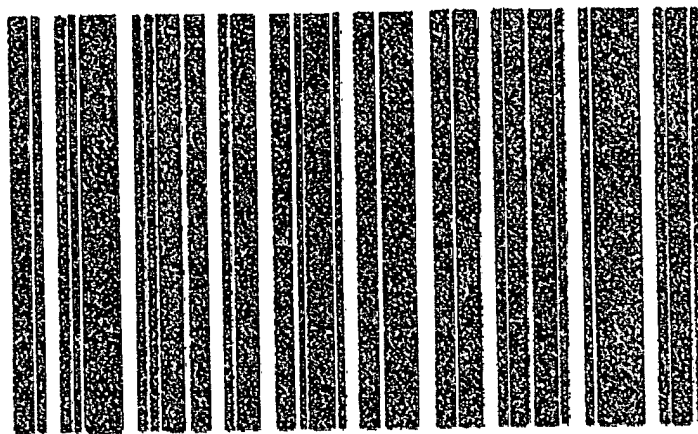
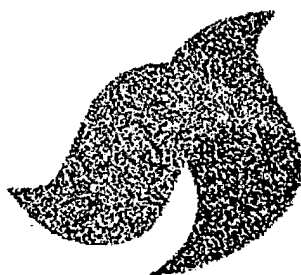


FIG. 8



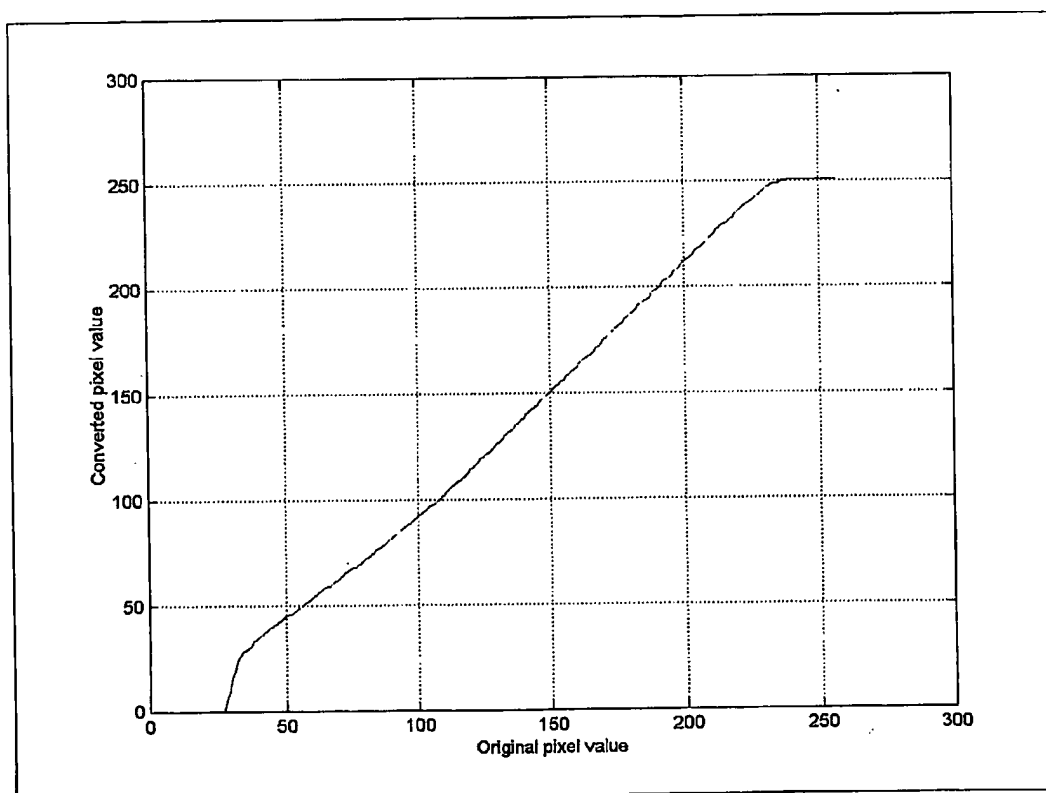


901



903

Fig. 9



1001

Fig. 10

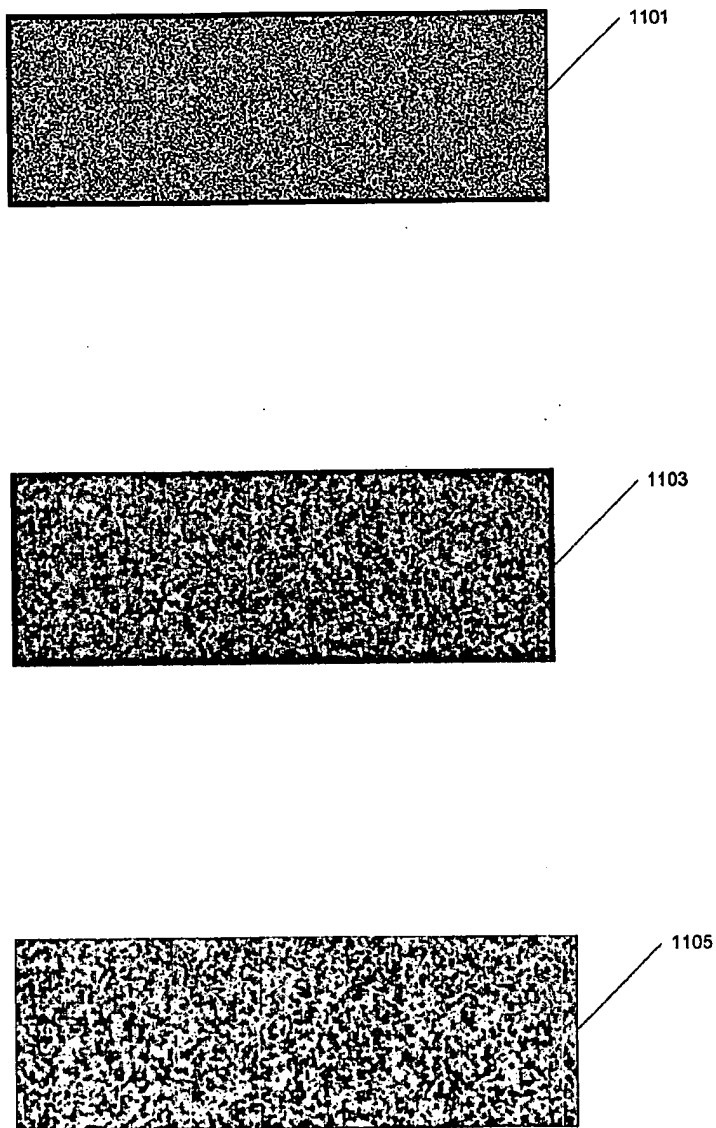


Fig. 11

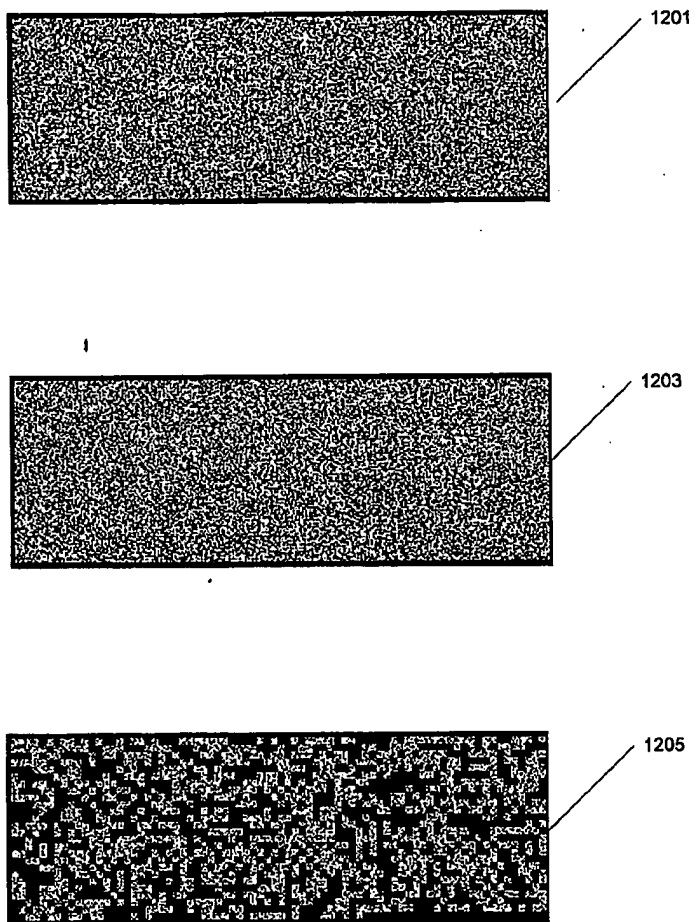
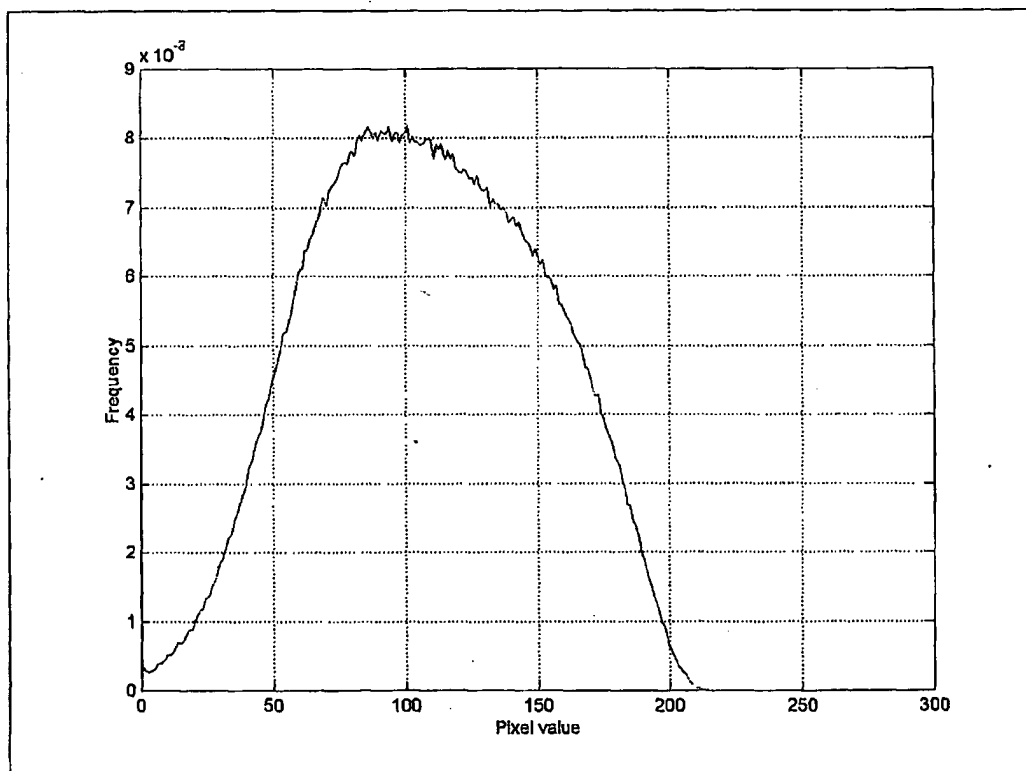


Fig. 12



1301

Fig. 13

1403

1405(i)

MediaSec Technologies LLC  
10 Weybosset Street, Suite 501  
Providence, RI 02803, USA

Date 04/15/03

1004

Pay to the order of **Bob Smith**

\$ 2,234.44

Two Thousand two hundred thirty four and 44/100 Dollars

Sample Bank

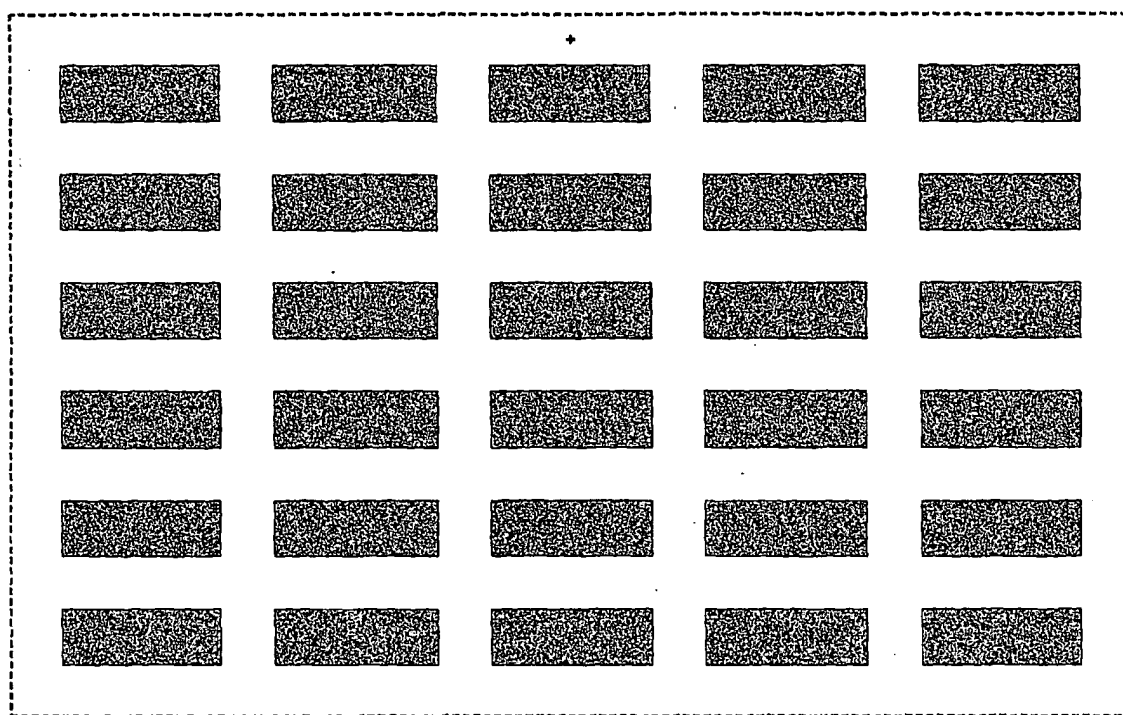
For Sample Sample

1004 1:123451:10041:1234567

demo v2.1 sample #: 00002

1401

Fig. 14



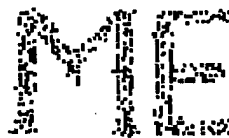
1501

Fig. 15

Obviously, the multiple CDP digital image has to be printed on the printer that will be used in the application, with the same printing parameters, and has to be scanned with the scanner of the application, with the same parameters as well. Not observing this, or using the wrong threshold and parameters, may lead to a less reliable detection, if not to completely wrong results.

1601

1602

A large, pixelated, black and white image of the letters 'ME'. The letters are composed of a grid of small squares, giving them a digital or dithered appearance. The 'M' is on the left and the 'E' is on the right.

1603

Fig. 16



1701

243	228	210	236
59	195	114	189
155	117	158	45
124	5	203	104

1702

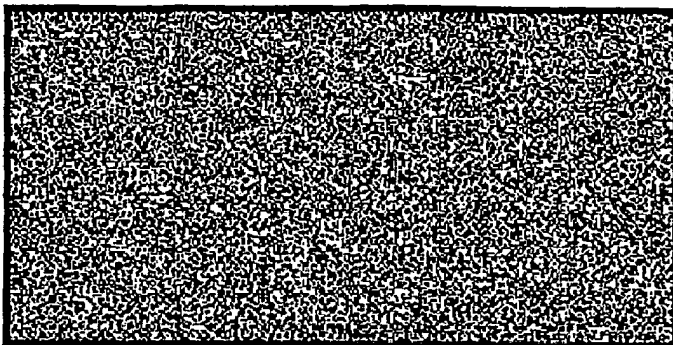
12	27	45	19
196	60	141	66
100	138	97	210
131	250	52	151

1703

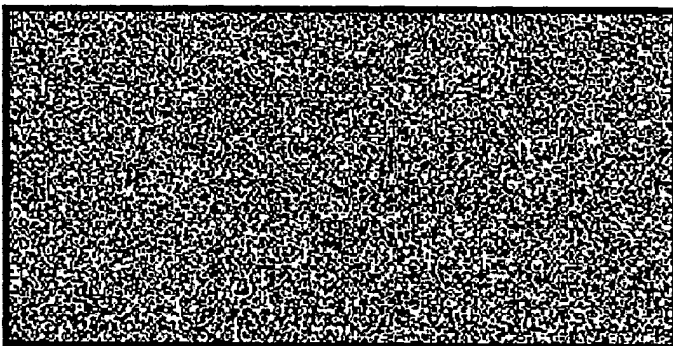
44	36	24	10
198	20	167	83
97	159	135	198
106	299	10	172

Fig. 17

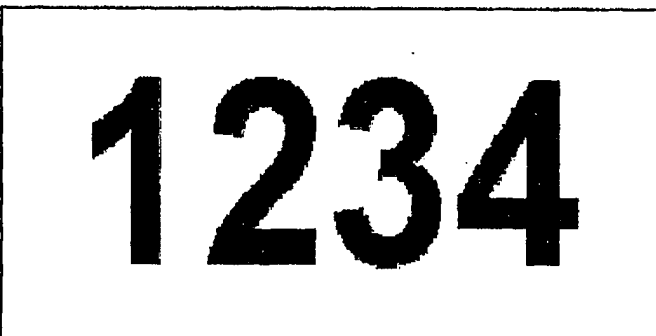
vap0 1801



vapk 1803



VM 1805



1807



Fig. 18